

CLAIMS

1. A packaging bag having a steam venting function, said packaging bag comprising two sheets of front and back main body films having respective sealant layers, said two sheets being laid on layers by facing each said sealant layers inward to form a bottom seal part and side seal parts by sealing three sides of the laid two sheets, while a space of a top intended part for heat seal thereof being still opened; wherein,

a fold-in part, with facing an inner sheet part and an outer sheet part each other by bending the main body film of the front side into Z shape, is formed in a front side of the main body film in the vicinity of the bottom seal part across an entire bag width parallel to said bottom seal part; and

said fold-in part has a steam venting port; and

a seal part is formed by placing an easily peelable tape having an easily peelable property on its side throughout a width direction of the bag parallel to the fold-in part within the fold-in part thereby to heat-seal an easily peelable side of the easily peelable tape positioned to the inner sheet side of the fold-in part, and

an easily peelable seal part, made as capable of a delamination by thermally welding and binding the easily peelable side of the easily peelable tape and a sealant layer of the inner sheet part in the seal part, is positioned around said steam venting port.

2. The packaging bag having the steam venting function according to claim1; wherein an opposite side of said easily peelable side of the easily peelable tape is made as a high strength adhesive side, and said seal part is provided by heat-sealing in making said easily peelable side of the easily peelable tape positioning to the inner sheet part side of the fold-in part and in making the high strength adhesive side of the easily peelable tape positioning to the outer sheet part side of the fold-in part, and said high strength adhesive side of the easily peelable tape in said seal part and the sealant layer of the outer sheet part are thermally welded and combined together so that the delamination by the steam pressure is made to be incapable.

3. The packaging bag having the steam venting function according to claim1 or claim 2, wherein said steam venting port is formed by cutting said seal part.

4. The packaging bag having the steam venting function according to any one of claim 1 to claim 3, wherein said seal part has one non-seal part or more comprising a non-seal region with one side continuous to a mountain folding edge of the fold-in part while the other three sides are surrounded by a seal region and said steam venting port is positioned in said non-seal part.

5. The packaging bag having the steam venting function according to any one of claim 1 to claim 4, wherein in said fold-in part plural of said seal parts are provided in making a discontinuous state through the non-seal part comprising the non-heat-seal region.

6. The packaging bag having the steam venting function according to claim 5, wherein the steam venting port of said seal part is adjacent to said non-seal part situated between the seal parts.

7. The packaging bag having the steam venting function according to any one of claim 1 to claim 5, wherein the seal part located at the center of said fold-in part has the non-seal part of the non-heat-seal region with one side continuous to the mountain folding edge of the fold-in part while the other three sides are surrounded by the seal region, and in the non-seal part, said steam venting port is located making a convex against an opposite side of the mountain folding edge; and in said both edges of the central seal part, a lateral side seal part is provided by having the non-seal part of the non-heat seal region with one side continuous to the mountain folding edge of the fold-in part while three sides are surrounded by the seal region; and said seal part in the center of the fold-in part and the lateral side seal part are provided to side by side, the non-seal part being between them.

8. The packaging bag having the steam venting function according to claim 7, wherein in the seal part of said center of the fold-in part, a seal width of the width direction of the bag of a vertical part continuous to the mountain folding edge of the seal region is wider than a seal width in the direction perpendicular to the width direction of the bag of a horizontal part along the width direction of the bag of the seal region.

9. The packaging bag having the steam venting function according to claim 7 or

claim 8, wherein in respective said lateral side seal parts, the vertical part of the side seal part side of the seal region is extended to the opposite side of the mountain folding edge of the fold-in part and the horizontal part of the seal region is inclined as approaching from said central seal part side to the side seal part side so as to be one-sided to the opposite side with the mountain folding edge.

10. The packaging bag having the steam venting function according to any one of claim7 to claim 9, wherein said lateral side seal part is provided to a line symmetry making the packaging bag vertical central line as an axis of symmetry.

11. The packaging bag having the steam venting function according to any one of claim1 to claim 6, wherein in both edges of said fold-in part, the non-seal part comprising the non-heat seal region between said seal part and the side seal part is provided and said non-seal part is the line symmetry making the vertical central line of the packaging bag as the axis of symmetry.

12. The packaging bag having the steam venting function according to any one of claim1 to claim 11, wherein the high strength adhesive side of a lower edge part in said easily peelable tape is thermally welded and combined to a sealant layer of said outer sheet part throughout a longitudinal direction of the tape in an incapable state of the delamination by the steam pressure.

13. The packaging bag having the steam venting function according to any one of claim1 to claim 12, wherein an edge part of said easily peelable tape is positioned between the main body films of the fold-in part in the side seal part of said fold-in part, and a punched hole is provided in said edge part of said easily peelable tape and the sealant layers of the main body films are thermally welded and combined each other through said punched hole in a direct manner.

14. The packaging bag having the steam venting function according to any one of claim1 to claim 11, wherein the lateral side seal part made by heat-sealing of the inner sheet part and the outer sheet part of the fold-in part with making to position the above mentioned easily peelable tape in between, and situated nearer to the above mentioned side seal part, is provided across in the direction perpendicular to the width direction of the bag of the fold-in part, and said lateral side seal part is continued to the seal part

having heat-sealing of the facing front and back main body films each other in contents filled region.

15. The packaging bag having the steam venting function according to any one of claim 1 to claim 12, wherein the seal width of the side seal part in the vicinity of said bottom seal part is made to be narrower than the seal width of the side seal part in the vicinity of a top intended part for heat seal situated facing to the bottom seal, and the seal width of the side seal part becomes wider as approaching from the vicinity position of the bottom seal part to the vicinity of said top intended part for heat seal.

16. The packaging bag having the steam venting function according to any one of claim 1 to claim 15, wherein said steam venting port is any one of small hole, cutting out, or slit.

17. The packaging bag having the steam venting function according to any one of claim 1 to claim 16, wherein in the vicinity of the top intended part for heat seal located facing to the bottom seal part, an easily cutting means is provided.

18. The package having the steam venting function, wherein from the top intended part for heat seal side of the packaging bag having the steam venting function according to any one of claim 1 to claim 17, contents are filled and said top intended part for heat seal is heat-sealed, and the main body film formed by the fold-in part, is laid horizontally and made to face up and heated, and, by swollen deformation of the packaging bag with an increased inner pressure, the delamination is made between the inner sheet part and the easily peelable tape in the seal region of the capable delamination in the seal part of the fold-in part so that the steam is made to vent from the opened steam venting port.